

AD-A111 425

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/8 4/2
19310A MLRS MISSILE NUMBERS V01-009, BN038, BN036, BN039, BN046--ETC(U)
JAN 82 D C KELLER

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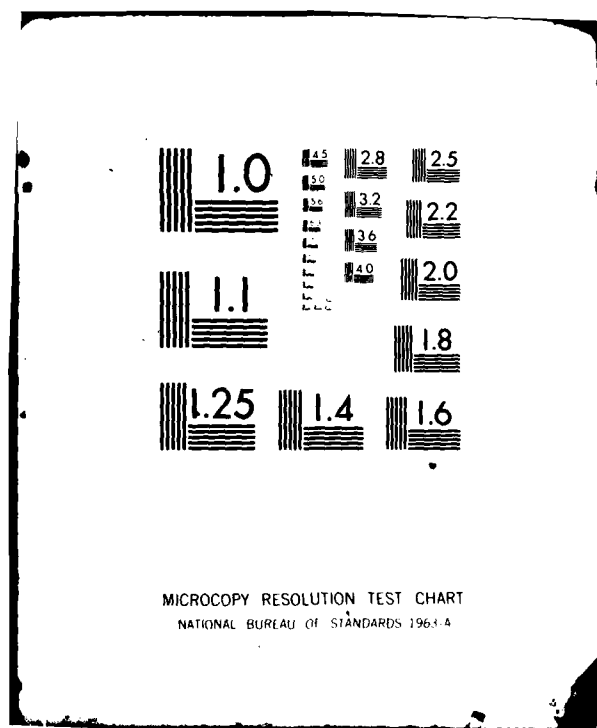
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METEOROLOGICAL DATA REPORT
19310A MLRS

Missile Numbers V01-009, BN038, BN036, BN039,
BN046

Round Numbers V-200/MD-54, V-201/MD-55,
V-202/MD-56, V-203/MD-57, V204/MD-58
06 Jan 82

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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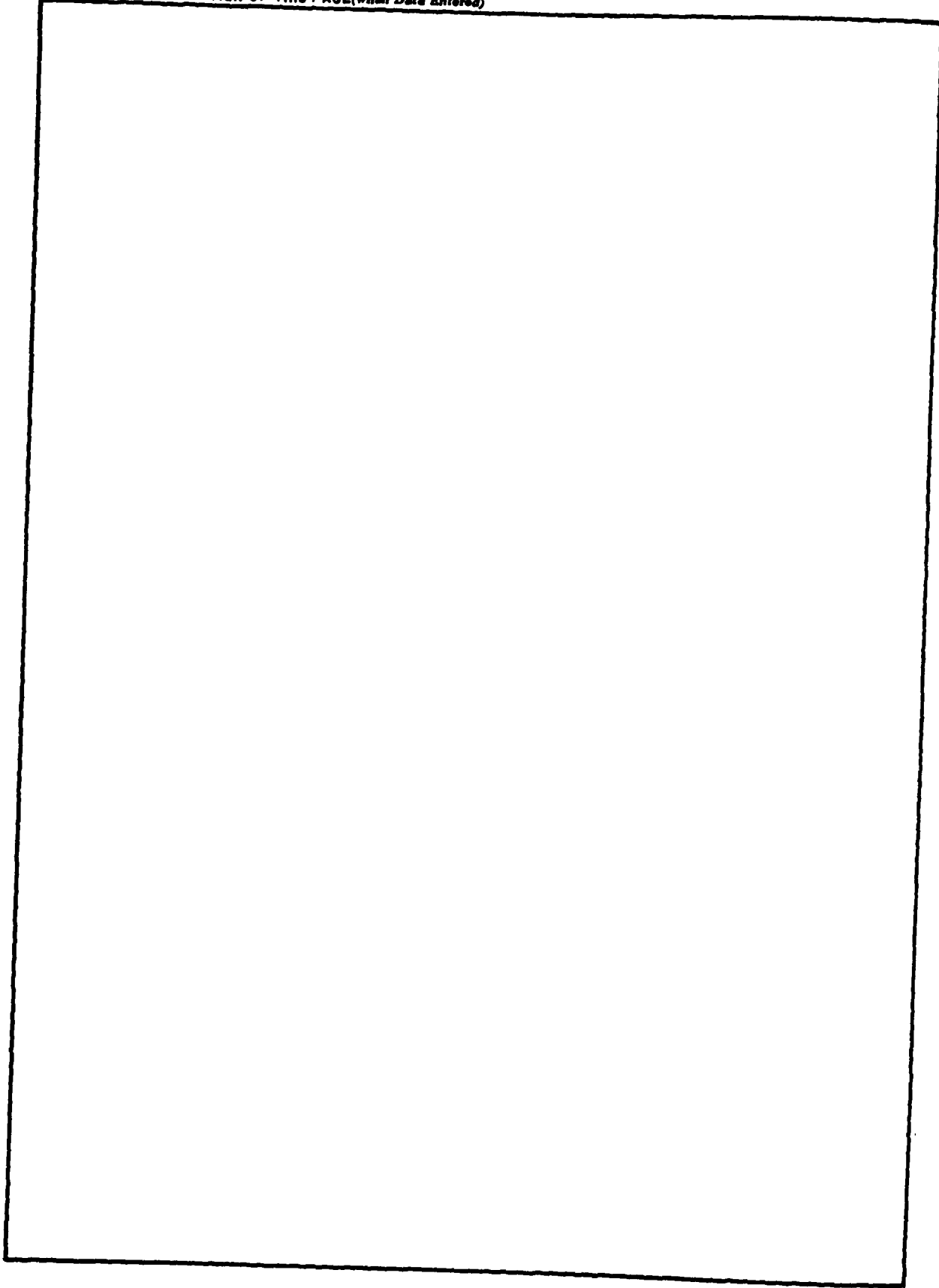
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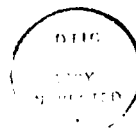
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CONTENTS	PAGE
INTRODUCTION -----	1
DISCUSSION -----	1
GENERAL AREA MAP-----	2
LAUNCH AREA DIAGRAM -----	3
TABLES	
1. Surface Observation Taken at 1034 MST at Brillo	4
2. 30 and 60 Foot AGL Launch Area Anemometer Data--	5
3. Launch and Impact Area Pilot-Balloon Measured Wind Data -----	6
4. Aiming and T-Time Computer Met Messages -----	7
5. NW30 Significant Level Data at 0715 MST -----	8
6. NW30 Upper Air Data at 0715 MST -----	10
7. NW30 Mandatory Levels at 0715 MST -----	14
8. Jallen Significant Level Data at 0730 MST -----	15
9. Jallen Upper Air Data at 0730 MST -----	17
10. Jallen Mandatory Levels at 0730 MST -----	22
11. Jallen Significant Level Data at 1035 MST -----	23
12. Jallen Upper Air Data at 1035 MST -----	25
13. Jallen Mandatory Levels at 1035 MST -----	30



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INTRODUCTION

19310A MLRS, Missile Numbers V01-009, BN038, BN036, BN039, and BN046, Round Numbers V-200/MD-54, V-201/MD-55, V-202/MD-56, V-203/MD-57, and V-204/MD-57, were launched from Brillo, White Sands Missile Range (WSMR), New Mexico, at 1032:50, 1032:55, 1032:59, 1033:04, and 1033:08 MST, 06 January 1982. The scheduled launch times were 1030, 1030:04.5, 1030:09, 1030:13.5, and 1030:18 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3); wind direction and speed, and cloud cover were made at the Brillo Met Site at T-0 minutes.

(2) Anemometer data were provided from existing tower-mounted anemometers at Brillo. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Double Theodolite pilot balloon observations at:

SITE AND ALTITUDE

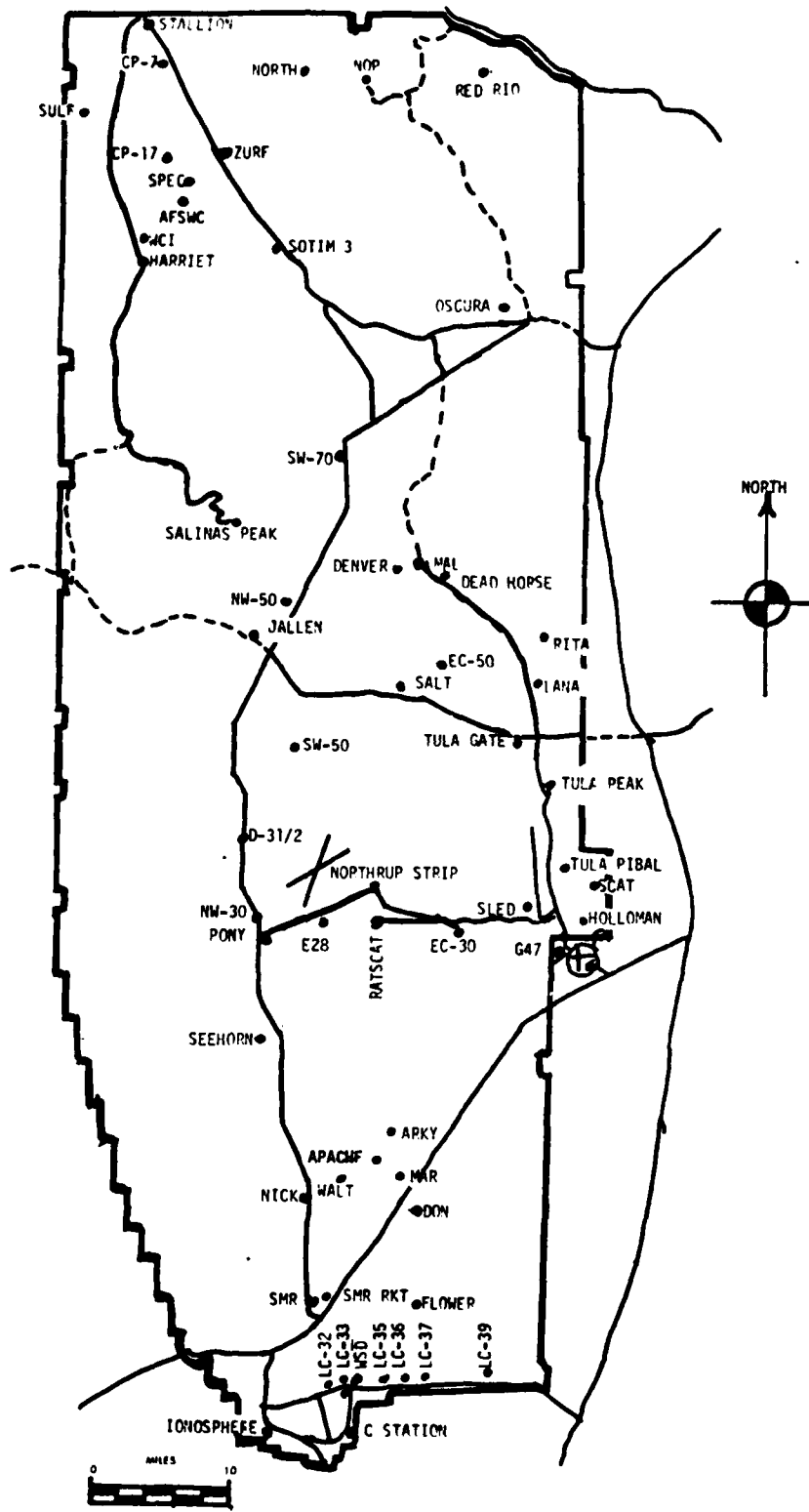
D 3 $\frac{1}{2}$ 800 meters
MAL 1750 meters

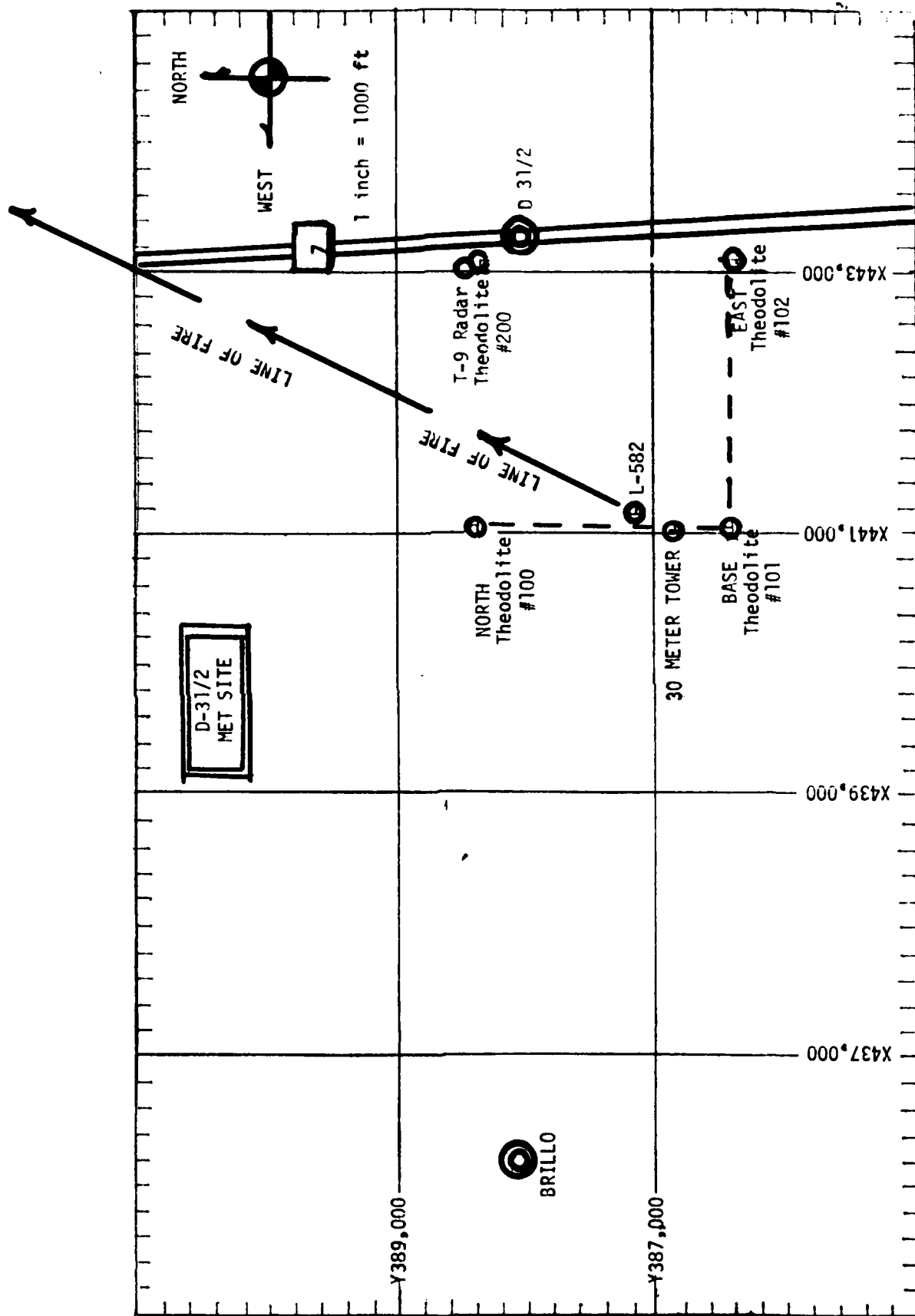
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

NW-30 0715 MST
Jallen 0730 MST
JALLEN 1035 MST

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE <u>1</u>									
STATION <u>Brillo</u>									
DATE <u>06</u>		MONTH <u>01</u>		YEAR <u>82</u>		X = <u>441,053.12</u>		Y = <u>386.316.94</u> H = <u>4008</u> Feet	
TIME M S I	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs Tn	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
1034	874.6	14.2	0.2	38	1057	220	18	G24	50+

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	AMT	TYPE	AMT	TYPE	
	4	CU	5,000	2	CS	25,000	

PSYCHROMETRIC COMPUTATION

TIME: MST	1034	
DPY BULB TEMP.	14.2	
WET BULB TEMP.	7.2	
WET BULB DEPR.	7.0	
DEW POINT	0.2	
RELATIVE HUMID.	38	

TABLE 2

ANEMOMETER DATA 30 and 60 FEET LEVELS OF 30 METER TOWER
 Y 441,018.71 Y 386,849.19 H 4004.80 (BASE)

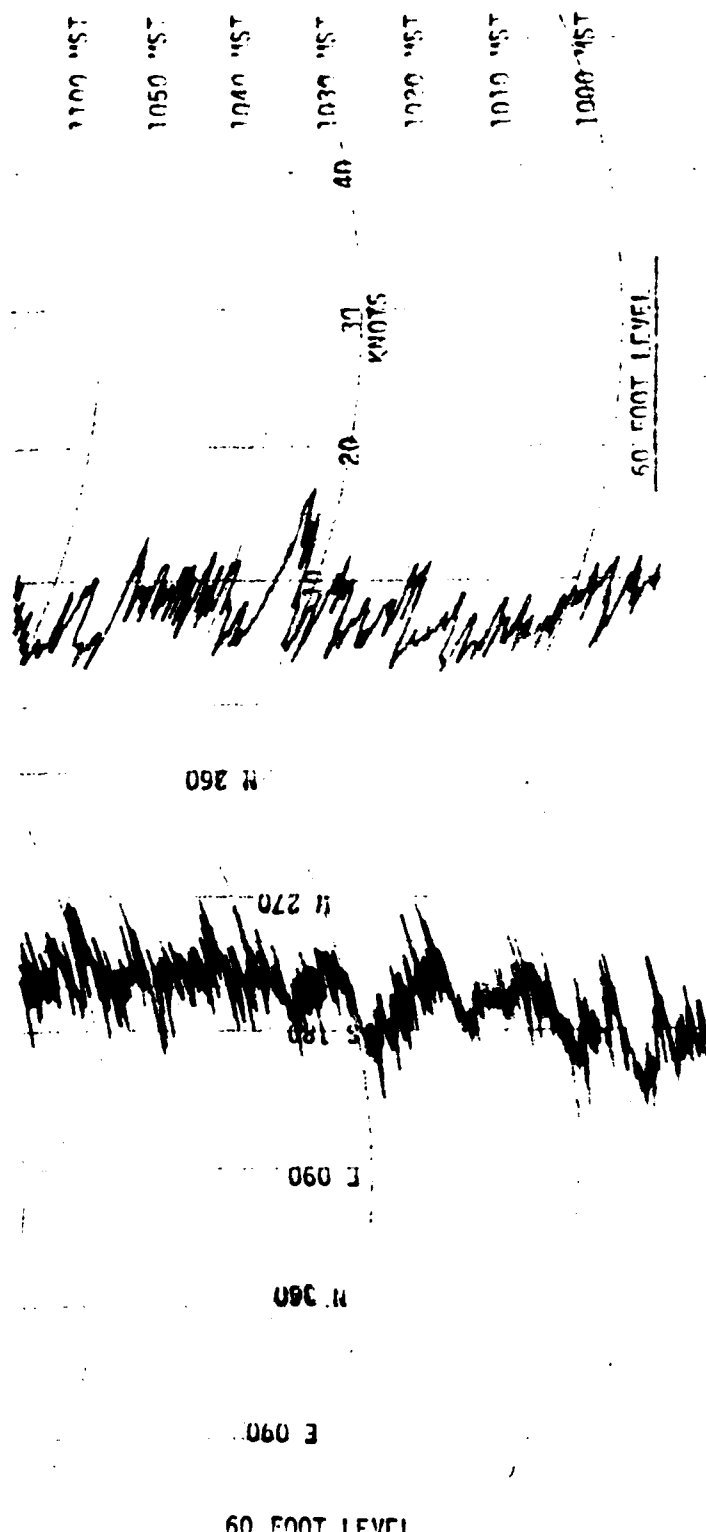
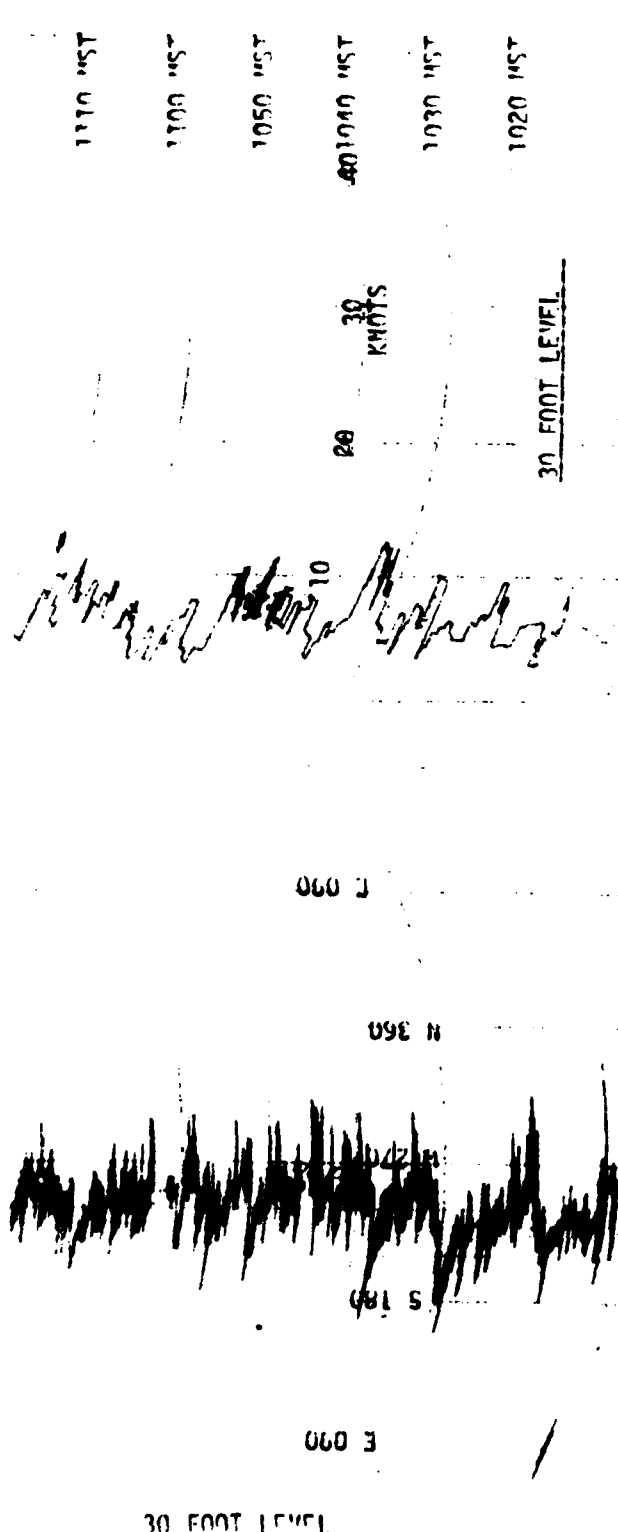


TABLE 3

T-TIME PILOT-BALLOON MEASURED WIND DATA
DATE 06 January 1982

SITE: D 34
TIME: 1046 MST
WSTM COORDINATES:
X= 441,053.12
Y= 386,316.94
H= 4,008.31

SITE: MAL
TIME: 1040
WSTM COORDINATES:
X= 509,421.05
Y= 495,563.18
H= 4,126.80

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	220	18
150	255	17
210	257	18
270	254	17
330	251	17
390	250	17
500	243	27
650	235	27
800	231	25
950		
1150		
1350		
1550		
1750		
2000		

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	230	20
150	231	23
210	231	26
270	231	23
330	232	21
390	233	19
500	236	18
650	239	21
800	239	23
950	249	19
1150	257	25
1350	258	30
1550	256	32
1750	250	31
2000		

TABLE 4

AIMING AND T-TIME COMPUTER MET MESSAGES

NW30 0715 MST	Jallen 0730 MST	Jallen 1035 MST
METCM1329065	METCM1332065	METCM1332065
061430122875	061450124872	061760124874
00409008 28200875	00320007 28080872	00409014 28630874
01411014 28280864	01303011 28220862	01407028 28690863
02415022 28130839	02369005 28100836	02428021 28400838
03423028 27860799	03462018 27810796	03439020 28000798
04450056 27580751	04456035 27510748	04458027 27520751
05450044 27420706	05451042 27180703	05460036 27150705
05446064 27130663	05451045 27010660	06447042 26910662
07449043 26870623	07438047 26820620	07443052 26650621
08442054 26590584	08448048 26460581	08430050 26410583
09461060 26200548	09458056 26080545	09425055 26020546
10458055 25800513	10449060 25660510	10435064 25690511
11447067 25480480	11447065 25250477	11440076 25310478
12449090 24950434	12445075 24740430	12435082 24680431
13448079 24290378	13446090 24010374	13439096 23890375
14435109 23580328	14438102 23390324	14432102 23420325
15439145 23150283	15441111 22910280	15441135 22800280
16442146 22690244	16438148 22460241	16430095 22730241
17430106 22370210	17432114 22260207	17435124 22300207
18428095 22180180	18428099 21940177	18427092 22040178
19426136 21620154	19415085 21720152	19424102 21660152
	20422059 21220129	20421089 21070130
	21573007 20780110	21434107 20760110
	22474035 20240093	22465042 20690094
	23468012 21150079	23112008 21270080
	24445044 21140067	24505014 21210068
	25479013 21280057	25536004 21420058
	26120025 21380049	26440046 21370049

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

SIGNIFICANT LEVEL DATA
0060220001
NW 30

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82
ASCENSION NO. 1
0715 HRS MST

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE		REL. HUM. PERCENT
		AIR	DEWPOINT	
874.8	4010.4	8.7	-11.8	22.0
871.2	4122.4	9.1	-3.4	41.0
852.2	4722.5	8.9	2.9	66.0
850.0	4792.7	7.7	2.0	67.0
785.8	6905.7	3.6	1.6	87.0
748.4	8206.6	3.0	-2.5	67.0
700.0	9977.9	.2	-9.2	49.0
649.2	11949.8	-3.3	-16.9	34.0
597.8	14083.1	-6.1	-20.8	30.0
539.4	16696.5	-12.5	-23.0	41.0
531.2	17080.7	-13.3	-23.4	42.0
507.4	18222.3	-16.1	-26.3	41.0
500.0	18585.6	-17.0	-29.1	34.0
483.4	19416.8	-18.3	-31.5	30.0
467.8	20220.6	-19.5	-23.4	71.0
445.4	21414.0	-22.2	-27.8	60.0
408.4	23488.1	-27.9	-30.7	77.0
400.0	23979.0	-28.3	-32.6	66.0
387.2	24745.1	-29.3	-36.0	52.0
373.2	25607.9	-30.9	-39.5	42.0
333.6	28192.5	-37.4	-46.6	37.0
300.0	30593.4	-39.8	-49.3	35.0
272.4	32751.8	-42.7		
255.6	34156.0	-46.2		
250.0	34641.8	-45.4		
228.4	36616.7	-47.8		
213.0	38122.1	-51.5		
207.8	38653.6	-49.1		
200.0	39481.9	-48.5		
193.6	40186.3	-49.0		
166.4	43424.1	-54.2		
150.0	45597.6	-58.2		
130.8	48415.1	-62.1		
123.4	49595.9	-64.4		
113.2	51327.9	-66.3		
100.0	53824.1	-63.3		
85.6	56978.5	-63.2		
80.2	58289.5	-66.9		
72.2	60396.8	-64.6		
70.0	61018.0	-66.5		

GEODETIC COORDINATES
 32.88497 LAT DEG
 106.49714 LON DEG

SIGNIFICANT LEVEL DATA
 0060220001
 NW 30

STATION ALTITUDE 4010.40 FEET MSL
 6 JAN. 82 0715 HRS MST
 ASCENSION NO. 1

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	DEWPOINT DEGREES	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
68.4	61479.7	-66.9		
66.2	62141.1	-61.0		
62.6	63289.3	-60.7		
55.4	65810.0	-59.1		
50.0	67935.6	-58.8		
44.2	70485.1	-60.2		

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82
ASCENSION NO. 1

UPPER AIR DATA
0060220001
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4010.4	874.8	8.7	-11.8	22.0	1080.1	654.4	230.0	8.0	1.000252
4500.0	859.2	9.0	.9	56.7	1057.9	655.3	234.5	12.5	1.000267
5000.0	843.5	7.3	2.0	69.0	1044.4	653.4	236.7	17.1	1.000267
5500.0	827.9	6.3	2.0	73.7	1028.7	652.3	237.9	21.7	1.000263
6000.0	812.7	5.4	1.9	78.4	1013.2	651.2	238.7	26.4	1.000260
6500.0	797.7	4.4	1.8	83.2	998.0	650.1	243.7	33.1	1.000257
7000.0	783.0	3.6	1.4	85.6	982.6	649.1	247.8	40.4	1.000252
7500.0	768.5	3.3	-2	77.9	965.4	648.7	250.6	45.5	1.000245
8000.0	754.2	3.1	-1.8	70.2	948.6	648.4	252.8	48.4	1.000238
8500.0	740.2	2.5	-3.6	64.0	933.0	647.6	253.9	49.6	1.000231
9000.0	726.3	1.7	-5.4	58.9	918.5	646.6	253.0	47.6	1.000225
9500.0	712.7	1.0	-7.3	53.9	904.1	645.6	252.2	45.9	1.000219
10000.0	699.4	.2	-9.3	48.8	890.0	644.6	251.9	46.2	1.000214
10500.0	686.2	-7	-11.1	45.0	876.2	643.5	251.6	46.5	1.000209
11000.0	673.2	-1.6	-13.0	41.2	862.6	642.4	251.7	48.1	1.000204
11500.0	660.5	-2.5	-15.0	37.4	849.2	641.3	252.1	50.3	1.000199
12000.0	647.9	-3.4	-17.0	33.9	835.9	640.2	252.4	52.5	1.000195
12500.0	635.5	-4.0	-17.9	33.0	821.9	639.4	251.4	53.5	1.000191
13000.0	623.4	-4.7	-18.8	32.0	808.2	638.6	250.3	54.4	1.000187
13500.0	611.4	-5.3	-19.7	31.1	794.7	637.8	249.5	55.3	1.000184
14000.0	599.7	-6.0	-20.7	30.2	781.4	637.0	249.5	56.0	1.000180
14500.0	588.1	-7.1	-21.1	31.8	769.5	635.6	249.6	56.8	1.000178
15000.0	576.6	-8.3	-21.4	33.9	758.0	634.2	251.6	57.2	1.000175
15500.0	565.4	-9.6	-21.8	36.0	746.7	632.7	254.5	57.5	1.000172
16000.0	554.4	-10.8	-22.3	38.1	735.6	631.2	257.1	57.6	1.000169
16500.0	543.6	-12.0	-22.8	40.2	724.7	629.8	259.3	57.0	1.000167
17000.0	532.9	-13.1	-23.3	41.8	713.5	628.4	260.1	56.8	1.000164
17500.0	522.3	-14.3	-24.5	41.6	702.6	626.9	258.3	57.2	1.000161
18000.0	511.9	-15.6	-25.7	41.2	692.0	625.4	256.2	58.0	1.000158
18500.0	501.7	-16.8	-28.4	35.6	681.5	623.9	254.0	59.7	1.000155
19000.0	491.7	-17.6	-30.3	32.0	670.1	622.8	252.6	61.8	1.000152
19500.0	481.8	-18.4	-30.3	34.2	658.6	621.9	252.2	64.4	1.000150
20000.0	472.0	-19.2	-25.0	59.7	647.0	621.1	252.1	67.3	1.000149
20500.0	462.5	-20.1	-24.4	68.4	636.3	619.9	252.3	70.6	1.000147
21000.0	453.0	-21.3	-26.3	63.8	626.2	618.5	252.6	73.9	1.000144
21500.0	443.8	-22.4	-27.9	60.7	616.3	617.0	252.9	77.2	1.000141
22000.0	434.6	-23.8	-28.5	64.8	606.9	615.3	253.1	79.9	1.000139
22500.0	425.6	-25.2	-29.2	68.9	597.7	613.6	253.2	82.6	1.000136
23000.0	416.8	-26.6	-29.9	73.0	588.6	611.9	253.1	84.0	1.000134
23500.0	408.2	-27.9	-30.7	76.7	579.6	610.2	253.0	85.4	1.000132

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82 0715 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
0060220001
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	399.6	-28.3	65.6	568.5	609.7	252.7	86.0	1.000129
24500.0	391.2	-29.0	56.5	558.0	608.8	252.3	86.6	1.000126
25000.0	383.0	-29.8	49.0	548.1	607.8	252.0	86.8	1.000124
25500.0	374.9	-30.7	43.3	538.6	606.7	251.5	87.2	1.000121
26000.0	366.9	-31.9	41.2	529.7	605.2	250.7	88.4	1.000119
26500.0	359.0	-33.1	40.3	521.0	603.6	249.8	90.0	1.000117
27000.0	351.3	-34.4	39.3	512.5	602.0	248.5	93.6	1.000115
27500.0	343.8	-35.7	38.3	504.2	600.4	247.3	97.4	1.000113
28000.0	336.4	-36.9	37.4	496.0	598.8	246.0	102.0	1.000111
28500.0	329.1	-37.7	36.7	486.9	597.8	245.0	106.7	1.000109
29000.0	321.9	-38.2	36.3	477.3	597.2	244.4	111.4	1.000107
29500.0	314.9	-38.7	35.9	467.8	596.5	244.2	115.8	1.000105
30000.0	308.0	-39.2	35.5	458.6	595.9	244.6	119.9	1.000103
30500.0	301.2	-39.7	35.1	449.5	595.3	245.3	125.4	1.000101
31000.0	294.6	-40.3	28.4**	440.8	594.4	246.1	132.2	1.000099
31500.0	288.1	-41.0	20.3**	432.3	593.6	246.7	141.5	1.000097
32000.0	281.7	-41.7	12.2**	424.0	592.7	247.0	152.0	1.000095
32500.0	275.5	-42.4	4.1**	415.8	591.8	247.4	153.5	1.000093
33000.0	269.4	-43.3		408.3	590.6	247.7	152.9	1.000091
33500.0	263.3	-44.6		401.3	589.0	248.4	144.0	1.000089
34000.0	257.4	-45.8		394.5	587.4	248.9	138.5	1.000088
34500.0	251.6	-45.6		385.3	587.6	249.2	138.8	1.000086
35000.0	245.9	-45.8		376.9	587.4	245.8	138.4	1.000084
35500.0	240.4	-46.4		369.4	586.6	240.0	138.9	1.000082
36000.0	234.9	-47.1		362.0	585.8			1.000081
36500.0	229.6	-47.7		354.7	585.0			1.000079
37000.0	224.4	-48.7		348.3	583.6			1.000078
37500.0	219.2	-50.0		342.2	582.0			1.000076
38000.0	214.2	-51.2		336.2	580.4			1.000075
38500.0	209.3	-49.8		326.4	582.2			1.000073
39000.0	204.5	-48.8		317.6	583.5			1.000071
39500.0	199.8	-48.5		309.9	583.9			1.000069
40000.0	195.3	-48.9		303.3	583.4			1.000068
40500.0	190.8	-49.5		297.2	582.6			1.000066
41000.0	186.4	-50.3		291.3	581.6			1.000065
41500.0	182.1	-51.1		285.6	580.5			1.000064
42000.0	177.9	-51.9		280.1	579.5			1.000062
42500.0	173.7	-52.7		274.6	578.4			1.000061
43000.0	169.7	-53.5		269.2	577.4			1.000060
43500.0	165.8	-54.3		264.0	576.3			1.000059

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82 0715 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
0060220001
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN) SPEED KNOTS	INDEX OF REFRACTION
44000.0	161.9	-55.3		258.8	575.1		1.000058
44500.0	158.1	-56.2		253.8	573.8		1.000057
45000.0	154.3	-57.1		248.9	572.6		1.000055
45500.0	150.7	-58.0		244.0	571.4		1.000054
46000.0	147.1	-58.8		239.0	570.4		1.000053
46500.0	143.6	-59.4		234.0	569.5		1.000052
47000.0	140.1	-60.1		229.1	568.6		1.000051
47500.0	136.7	-60.8		224.4	567.7		1.000050
48000.0	133.5	-61.5		219.7	566.7		1.000049
48500.0	130.3	-62.3		215.2	565.7		1.000048
49000.0	127.1	-63.2		210.9	564.4		1.000047
49500.0	124.0	-64.2		206.7	563.1		1.000046
50000.0	120.9	-64.8		202.3	562.3		1.000045
50500.0	118.0	-65.4		197.8	561.5		1.000044
51000.0	115.1	-65.9		193.4	560.8		1.000043
51500.0	112.2	-66.1		188.8	560.6		1.000042
52000.0	109.5	-65.5		183.7	561.4		1.000041
52500.0	106.8	-64.9		178.6	562.2		1.000040
53000.0	104.2	-64.3		173.8	563.0		1.000039
53500.0	101.6	-63.7		169.0	563.8		1.000038
54000.0	99.1	-63.3		164.6	564.4		1.000037
54500.0	96.7	-63.3		160.5	564.4		1.000036
55000.0	94.4	-63.3		156.6	564.4		1.000035
55500.0	92.1	-63.2		152.8	564.4		1.000034
56000.0	89.8	-63.2		149.1	564.4		1.000033
56500.0	87.6	-63.2		145.4	564.5		1.000032
57000.0	85.5	-63.3		141.9	564.4		1.000032
57500.0	83.4	-64.7		139.4	562.5		1.000031
58000.0	81.4	-66.1		136.9	560.6		1.000030
58500.0	79.4	-66.7		133.9	559.8		1.000030
59000.0	77.4	-66.1		130.3	560.5		1.000029
59500.0	75.5	-65.6		126.7	561.3		1.000028
60000.0	73.6	-65.0		123.3	562.0		1.000027
60500.0	71.8	-64.9		120.2	562.2		1.000027
61000.0	70.1	-66.4		118.1	560.1		1.000026
61500.0	68.3	-66.7		115.3	559.7		1.000026
62000.0	66.7	-62.3		110.1	565.8		1.000025
62500.0	65.1	-60.9		106.8	567.6		1.000024
63000.0	63.5	-60.8		104.1	567.7	203.1	1.000023
63500.0	62.0	-60.6		101.5	568.0	207.2	1.000023

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82 0715 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
0060220001
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	60.5	-60.2		99.0	568.4	224.5	6.5	1.000022
64500.0	59.0	-59.9		96.4	568.9	253.0	7.4	1.000021
65000.0	57.6	-59.6		94.0	569.3	265.9	10.5	1.000021
65500.0	56.2	-59.3		91.6	569.7	268.4	13.5	1.000020
66000.0	54.9	-59.1		89.3	570.0	265.7	16.4	1.000020
66500.0	53.6	-59.0		87.2	570.1	263.7	19.3	1.000019
67000.0	52.3	-58.9		85.1	570.2	264.3	16.4	1.000019
67500.0	51.1	-58.9		83.0	570.3	266.1	12.2	1.000018
68000.0	49.8	-58.8		81.0	570.3	275.6	6.5	1.000018
68500.0	48.7	-59.1		79.2	570.0	54.3	10.7	1.000018
69000.0	47.5	-59.4		77.4	569.6	63.6	26.7	1.000017
69500.0	46.4	-59.7		75.6	569.2			1.000017
70000.0	45.2	-59.9		73.9	568.9			1.000016

STATION ALTITUDE 4010.40 FEET MSL
6 JAN. 82
ASCENSION NO. 1

MANDATORY LEVELS
0060220001
NW 30

GEODETTIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 7

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4789.	7.7	2.0	67.	235.9	15.2
800.0	6422.	4.5	1.8	82.	242.9	32.0
750.0	8143.	3.0	-2.3	68.	253.5	49.2
700.0	9969.	.2	-9.2	49.	251.9	46.2
650.0	11906.	-3.2	-16.7	34.	252.4	52.1
600.0	13973.	-6.0	-20.6	30.	249.5	56.0
550.0	16187.	-11.3	-22.5	39.	258.0	57.4
500.0	18561.	-17.0	-29.1	34.	253.6	59.9
450.0	21134.	-21.6	-26.9	62.	252.7	74.9
400.0	23941.	-28.3	-32.6	66.	252.7	86.0
350.0	27048.	-34.6	-43.6	39.	248.3	94.2
300.0	30535.	-39.8	-49.3	35.	245.4	126.5
250.0	34569.	-45.4			249.3	138.8
200.0	39389.	-48.5			9999.0XX	9999.0XX
175.0	42250.	-52.5			9999.0	9999.0XX
150.0	45477.	-58.2			9999.0	9999.0XX
125.0	49197.	-63.9			9999.0	9999.0XX
100.0	53661.	-63.3			9999.0	9999.0XX
80.0	58150.	-66.8			9999.0	9999.0XX
70.0	60812.	-66.5			9999.0	9999.0XX
60.0	63936.	-60.1			9999.0	9999.0XX
50.0	67684.	-58.8			235.4	5.7
					268.9	8.8

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 0730 HRS MST
ASCENSION NO. 1

SIGNIFICANT LEVEL DATA
0060030001
JALLEN

TABLE 8

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
872.2	6.9	3.0	76.0
863.7	8.7	3.3	69.0
850.0	8.0	2.5	68.0
806.9	4.8	1.7	80.0
760.5	1.4	-4	88.0
742.0	1.3	-2.6	75.0
702.6	-2.2	-3.3	92.0
700.0	-2.5	-4.4	87.0
678.9	-3.7	-5.2	89.0
669.6	-3.1	-16.0	36.0
660.9	-2.8	-19.1	27.0
616.4	-5.2	-22.1	25.0
533.2	-13.8	-24.2	41.0
509.0	-16.9	-32.6	24.0
500.0	-17.7	-31.7	28.0
466.8	-22.3	-29.0	54.0
461.6	-21.7	-23.3	87.0
410.1	-28.8	-30.3	87.0
400.0	-30.4	-32.7	80.0
389.5	-31.7	-35.6	68.0
380.4	-32.3	-40.8	42.0
362.1	-34.3	-44.9	33.0
336.3	-38.7	-50.2	28.0
317.1	-39.4	-51.8	25.0
300.0	-42.2		
286.9	-42.8		
263.1	-46.5		
250.0	-47.3		
239.9	-48.1		
223.9	-51.4		
208.8	-49.8		
200.0	-50.3		
184.8	-53.0		
166.8	-55.2		
158.0	-54.2		
150.0	-56.2		
119.4	-63.6		
100.0	-67.6		
89.9	-70.8		
86.8	-70.8		

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

SIGNIFICANT LEVEL DATA
0060030001
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 0730 HRS MST
ASCENSION NO. 1

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
83.7 57106.4	-63.4		
80.7 57853.0	-59.7		
75.3 59278.6	-60.8		
70.0 60773.3	-61.9		
64.5 62443.5	-62.3		
61.7 63352.9	-60.3		
56.3 65237.4	-60.6		
50.0 67688.8	-58.7		
41.7 71431.8	-61.5		
33.3 76044.7	-61.2		
30.0 78201.2	-58.4		
25.9 81268.5	-57.0		
20.0 86657.6	-59.1		
15.5 91983.9	-56.2		
13.9 94271.5	-57.2		

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN. 82 0730 HRS MST
 ASCENSION NO. 1

UPPER AIR DATA
 0060030001
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	872.2	6.9	3.0	76.0	1081.4	653.0	180.0	7.0	1.000278
4500.0	857.9	8.4	3.0	68.6	1057.9	654.8	205.4	6.3	1.000272
5000.0	842.2	7.4	2.4	70.1	1042.2	653.6	233.3	7.1	1.000267
5500.0	826.7	6.3	2.1	74.4	1027.3	652.3	252.2	9.1	1.000263
6000.0	811.5	5.2	1.8	78.7	1012.6	651.0	263.4	11.8	1.000260
6500.0	796.5	4.1	1.2	81.7	997.8	649.7	258.5	18.0	1.000255
7000.0	781.7	3.0	.6	84.3	983.2	648.4	256.0	24.4	1.000251
7500.0	767.2	1.9	-.1	86.8	968.8	647.1	255.8	29.3	1.000246
8000.0	752.9	1.4	-1.3	82.7	952.8	646.4	255.6	34.0	1.000240
8500.0	738.8	1.0	-2.7	76.4	936.3	645.9	255.5	36.5	1.000234
9000.0	724.9	-.2	-2.8	82.3	922.8	644.5	255.1	38.6	1.000231
9500.0	711.2	-1.4	-3.1	88.2	909.4	643.0	254.1	39.8	1.000228
10000.0	697.8	-2.6	-4.4	87.2	896.4	641.5	254.2	40.8	1.000222
10500.0	684.5	-3.4	-5.0	88.5	881.9	640.6	254.6	41.9	1.000218
11000.0	671.5	-3.2	-12.9	46.9	865.5	640.5	254.4	43.8	1.000205
11500.0	658.7	-2.9	-19.3	26.9	848.5	640.7	253.1	45.8	1.000196
12000.0	646.1	-3.6	-20.1	26.4	834.4	639.9	250.8	47.9	1.000192
12500.0	633.8	-4.2	-20.9	25.8	820.5	639.1	248.8	47.9	1.000189
13000.0	621.7	-4.9	-21.7	25.2	806.9	638.3	246.7	47.7	1.000185
13500.0	609.7	-5.9	-22.1	26.2	794.1	637.1	247.2	47.2	1.000182
14000.0	597.8	-7.0	-22.2	28.4	782.0	635.7	248.0	46.7	1.000180
14500.0	586.1	-8.2	-22.4	30.6	770.1	634.4	250.9	48.2	1.000177
15000.0	574.7	-9.4	-22.7	32.7	758.5	633.0	253.8	49.9	1.000174
15500.0	563.5	-10.5	-23.0	34.9	747.0	631.5	255.7	51.9	1.000172
16000.0	552.5	-11.7	-23.4	37.1	735.7	630.1	257.2	54.1	1.000169
16500.0	541.8	-12.9	-23.8	39.2	724.6	628.7	257.0	55.9	1.000166
17000.0	531.2	-14.1	-24.8	39.6	713.8	627.3	255.8	57.5	1.000164
17500.0	520.6	-15.4	-28.2	32.2	703.3	625.6	254.5	59.2	1.000160
18000.0	510.2	-16.7	-32.1	24.9	693.0	623.9	253.3	61.0	1.000157
18500.0	500.0	-17.7	-31.7	28.0	681.6	622.7	252.3	62.6	1.000154
19000.0	489.8	-19.1	-30.4	35.8	671.3	621.1	251.8	64.0	1.000152
19500.0	479.9	-20.5	-29.6	43.5	661.3	619.4	251.4	65.4	1.000150
20000.0	470.1	-21.8	-29.1	51.3	651.4	617.7	250.9	66.8	1.000148
20500.0	460.5	-21.8	-23.4	87.0	637.9	617.8	250.5	68.1	1.000148
21000.0	451.0	-23.1	-24.6	87.0	627.9	616.3	250.4	70.2	1.000145
21500.0	441.7	-24.3	-25.9	87.0	618.0	614.7	250.3	72.3	1.000142
22000.0	432.5	-25.6	-27.1	87.0	608.3	613.1	250.4	74.2	1.000140
22500.0	423.6	-26.9	-28.4	87.0	598.8	611.5	250.5	76.0	1.000137
23000.0	414.8	-28.1	-29.6	87.0	589.4	610.0	250.6	77.4	1.000135
23500.0	406.1	-29.4	-31.2	84.3	580.3	608.3	250.8	78.8	1.000132

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 0730 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
0060030001
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	397.6	-30.7	-33.4	77.2	571.0	606.7	251.0	80.7	1.000130
24500.0	389.1	-31.7	-35.8	67.0	561.3	605.4	251.1	83.3	1.000127
25000.0	380.9	-32.3	-40.5	43.3	550.7	604.7	251.0	85.2	1.000124
25500.0	372.7	-33.1	-42.5	38.3	540.9	603.6	250.6	86.4	1.000121
26000.0	364.7	-34.0	-44.2	34.3	531.2	602.5	250.0	87.4	1.000119
26500.0	356.9	-35.2	-45.9	32.0	522.3	601.0	249.1	87.9	1.000117
27000.0	349.1	-36.5	-47.5	30.5	513.8	599.4	248.2	90.6	1.000115
27500.0	341.6	-37.8	-49.1	29.0	505.5	597.7	247.2	94.9	1.000113
28000.0	334.1	-38.8	-50.4	27.7	496.6	596.4	246.6	99.9	1.000111
28500.0	326.8	-39.0	-51.0	26.5	486.3	596.1	246.2	105.2	1.000109
29000.0	319.6	-39.3	-51.6	25.4	476.2	595.8	246.3	110.3	1.000106
29500.0	312.6	-40.1	-54.9	18.6**	467.3	594.7	246.7	115.2	1.000104
30000.0	305.7	-41.2	-61.9	8.5**	459.2	593.3	247.1	117.4	1.000102
30500.0	299.0	-42.2			451.0	592.0	247.5	118.5	1.000100
31000.0	292.3	-42.5			441.6	591.6	247.6	114.7	1.000098
31500.0	285.8	-43.0			432.5	591.1	247.7	108.5	1.000096
32000.0	279.4	-43.9			424.6	589.8	247.9	104.7	1.000095
32500.0	273.1	-44.9			416.9	588.6	248.3	102.6	1.000093
33000.0	267.0	-45.9			409.2	587.3	248.7	109.2	1.000091
33500.0	261.0	-46.6			401.4	586.3	248.9	122.8	1.000089
34000.0	255.1	-47.0			392.9	585.9	245.9	131.5	1.000088
34500.0	249.3	-47.4			384.6	585.4	241.4	137.9	1.000086
35000.0	243.6	-47.8			376.6	584.8			1.000084
35500.0	238.1	-48.5			369.1	584.0			1.000082
36000.0	232.6	-49.6			362.4	582.5			1.000081
36500.0	227.3	-50.7			355.9	581.1			1.000079
37000.0	222.1	-51.2			348.6	580.4			1.000078
37500.0	216.9	-50.7			339.7	581.1			1.000076
38000.0	212.0	-50.1			331.1	581.8			1.000074
38500.0	207.1	-49.9			323.1	582.1			1.000072
39000.0	202.3	-50.2			316.1	581.7			1.000070
39500.0	197.7	-50.7			309.6	581.0			1.000069
40000.0	193.1	-51.5			303.5	580.0			1.000068
40500.0	188.6	-52.3			297.5	579.0			1.000066
41000.0	184.3	-53.1			291.7	578.0			1.000065
41500.0	180.0	-53.6			285.5	577.3			1.000064
42000.0	175.8	-54.1			279.5	576.6			1.000062
42500.0	171.6	-54.6			273.6	576.0			1.000061
43000.0	167.6	-55.1			267.8	575.3			1.000060
43500.0	163.7	-54.9			261.3	575.6			1.000058

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 0730 HRS MST
ASCENSION NO. 1

UPPER AIR DATA
0060030001
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
44000.0	159.9	-54.4		254.6	576.2		1.000057
44500.0	156.1	-54.7		248.9	575.9		1.000055
45000.0	152.5	-55.6		244.1	574.6		1.000054
45500.0	148.9	-56.4		239.3	573.5		1.000053
46000.0	145.3	-57.2		234.4	572.4		1.000052
46500.0	141.8	-58.0		229.6	571.4		1.000051
47000.0	138.4	-58.8		224.9	570.4		1.000050
47500.0	135.1	-59.6		220.4	569.3		1.000049
48000.0	131.8	-60.4		215.9	568.3		1.000048
48500.0	128.7	-61.2		211.5	567.2		1.000047
49000.0	125.6	-62.0		207.2	566.2		1.000046
49500.0	122.6	-62.7		203.0	565.1		1.000045
50000.0	119.6	-63.5		198.8	564.0		1.000044
50500.0	116.7	-64.1		194.5	563.3		1.000043
51000.0	113.8	-64.7		190.2	562.5		1.000042
51500.0	111.0	-65.2		186.0	561.7		1.000041
52000.0	108.3	-65.8		181.9	561.0		1.000041
52500.0	105.6	-66.4		177.9	560.2		1.000040
53000.0	103.0	-66.9		174.0	559.5		1.000039
53500.0	100.5	-67.5		170.2	558.7		1.000038
54000.0	98.0	-68.2		166.5	557.7		1.000037
54500.0	95.5	-69.0		163.0	556.7		1.000036
55000.0	93.1	-69.7		159.5	555.6		1.000036
55500.0	90.8	-70.5		156.1	554.6		1.000035
56000.0	88.5	-70.8		152.4	554.2		1.000034
56500.0	86.3	-69.6		147.7	555.8		1.000033
57000.0	84.1	-64.5		140.5	562.8		1.000031
57500.0	82.1	-61.4		135.1	566.8		1.000030
58000.0	80.1	-59.8		130.8	569.0		1.000029
58500.0	78.2	-60.2		127.9	568.5		1.000028
59000.0	76.3	-60.6		125.1	568.0		1.000028
59500.0	74.5	-61.0		122.3	567.5		1.000027
60000.0	72.7	-61.3		119.6	567.0		1.000027
60500.0	70.9	-61.7		116.9	566.5		1.000026
61000.0	69.2	-62.0		114.2	566.2		1.000025
61500.0	67.6	-62.1		111.5	566.0		1.000025
62000.0	65.9	-62.2		108.9	565.8		1.000024
62500.0	64.3	-62.2		106.2	565.9		1.000024
63000.0	62.8	-61.1		103.1	567.3		1.000023
63500.0	61.3	-60.3		100.3	568.3		1.000022
						240.7	55.5
						245.7	57.6
						250.3	60.2
						251.6	55.2
						252.8	49.4
						254.3	40.8
						256.9	24.4
						269.9	8.2
						348.6	2.4
						44.1	3.9
						42.2	2.3
						252.7	12.1
						250.1	26.3
						250.5	38.8
						250.7	51.2
						251.3	56.3
						252.1	54.6
						253.1	52.9
						254.7	41.1

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN, 82 0730 HRS MST
 ASCENSION NO. 1

UPPER AIR DATA
 0060030001
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	59.8	-60.4		97.9	568.2	257.8	28.2	1.000022
64500.0	58.4	-60.5		95.6	568.1	264.3	16.4	1.000021
65000.0	57.0	-60.6		93.3	568.0	277.8	7.7	1.000021
65500.0	55.6	-60.4		91.0	568.2	15.1	3.9	1.000020
66000.0	54.3	-60.0		88.7	568.8	53.8	9.7	1.000020
66500.0	53.0	-59.6		86.4	569.3	61.6	15.2	1.000019
67000.0	51.7	-59.2		84.2	569.8	65.0	20.5	1.000019
67500.0	50.5	-58.8		82.0	570.3	66.0	23.8	1.000018
68000.0	49.3	-58.9		80.1	570.2	66.7	27.2	1.000018
68500.0	48.1	-59.3		78.3	569.7	65.5	25.0	1.000017
69000.0	46.9	-59.7		76.6	569.2	62.9	20.7	1.000017
69500.0	45.8	-60.1		74.9	568.7	57.3	15.1	1.000017
70000.0	44.7	-60.4		73.2	568.2	31.9	7.3	1.000016
70500.0	43.6	-60.8		71.6	567.7	310.4	6.5	1.000016
71000.0	42.6	-61.2		70.0	567.2	280.8	12.4	1.000016
71500.0	41.6	-61.5		68.4	566.8	271.3	19.3	1.000015
72000.0	40.6	-61.5		66.7	566.8	269.8	22.7	1.000015
72500.0	39.6	-61.4		65.1	566.9	273.4	21.4	1.000014
73000.0	38.6	-61.4		63.6	566.9	277.4	20.2	1.000014
73500.0	37.7	-61.4		62.0	566.9	292.6	15.5	1.000014
74000.0	36.8	-61.3		60.5	567.0	324.1	12.2	1.000013
74500.0	35.9	-61.3		59.0	567.0	358.4	13.7	1.000013
75000.0	35.0	-61.3		57.6	567.1	10.0	16.0	1.000013
75500.0	34.2	-61.2		56.2	567.1	18.5	18.8	1.000013
76000.0	33.4	-61.2		54.9	567.2	21.9	20.3	1.000012
76500.0	32.6	-60.6		53.4	568.0	20.6	19.6	1.000012
77000.0	31.8	-60.0		52.0	568.8	19.3	19.0	1.000012
77500.0	31.0	-59.3		50.6	569.7	15.9	18.0	1.000011
78000.0	30.3	-58.7		49.2	570.6	11.1	16.9	1.000011
78500.0	29.6	-58.3		47.9	571.1	5.7	15.9	1.000011
79000.0	28.9	-58.0		46.8	571.4	354.4	15.1	1.000010
79500.0	28.2	-57.8		45.6	571.7	342.3	14.9	1.000010
80000.0	27.5	-57.6		44.5	572.0	331.6	15.2	1.000010
80500.0	26.9	-57.4		43.4	572.3	333.2	14.6	1.000010
81000.0	26.2	-57.1		42.3	572.6	335.1	13.9	1.000009
81500.0	25.6	-57.1		41.3	572.6	338.5	13.3	1.000009
82000.0	25.0	-57.3		40.4	572.4	353.7	12.8	1.000009
82500.0	24.4	-57.5		39.4	572.1	8.9	13.2	1.000009
83000.0	23.8	-57.7		38.5	571.9	19.0	14.0	1.000009
83500.0	23.3	-57.9		37.7	571.6	8.0	13.2	1.000008

STATION ALTITUDE 4051.00 FEET MSL 6 JAN. 82 0730 HRS MST ASCENSION NO. 1				UPPER AIR DATA 0060030001 JALLEN		GEODETI. COORDINATES 33.16712 LAT DEG 106.49511 LON DEG		
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
84000.0	22.7	-58.1		36.8	571.3	355.9	12.9	1.000008
84500.0	22.2	-58.3		36.0	571.1	343.2	13.3	1.000008
85000.0	21.7	-58.5		35.1	570.8	330.0	15.1	1.000008
85500.0	21.1	-58.6		34.3	570.6	320.1	17.6	1.000008
86000.0	20.6	-58.8		33.6	570.3	318.8	19.2	1.000007
86500.0	20.2	-59.0		32.8	570.1	343.6	18.5	1.000007
87000.0	19.7	-58.9		32.0	570.2	6.1	21.1	1.000007
87500.0	19.2	-58.6		31.2	570.6	21.0	25.2	1.000007
88000.0	18.8	-58.4		30.4	570.9	30.5	27.3	1.000007
88500.0	18.3	-58.1		29.7	571.3	38.4	30.0	1.000007
89000.0	17.9	-57.8		28.9	571.7	41.2	28.9	1.000006
89500.0	17.5	-57.6		28.2	572.0	25.2	16.2	1.000006
90000.0	17.0	-57.3		27.5	572.4	325.0	9.2	1.000006
90500.0	16.6	-57.0		26.8	572.8	274.5	16.6	1.000006
91000.0	16.2	-56.7		26.2	573.1	263.8	25.9	1.000006
91500.0	15.9	-56.5		25.5	573.5	258.8	35.6	1.000006
92000.0	15.5	-56.2		24.9	573.8	256.0	45.5	1.000006
92500.0	15.1	-56.4		24.3	573.5			1.000005
93000.0	14.8	-56.6		23.8	573.2			1.000005
93500.0	14.4	-56.9		23.2	572.9			1.000005
94000.0	14.1	-57.1		22.7	572.7			1.000005

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 0730 HRS MST
ASCENSION NO. 1

MANDATORY LEVELS
0060030001
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 10

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4748.	8.0	2.5	68.	220.1	6.5
800.0	6380.	4.3	1.4	81.	259.4	16.5
750.0	8095.	1.3	-1.6	81.	255.6	34.5
700.0	9909.	-2.5	-4.4	87.	254.1	40.7
650.0	11835.	-3.4	-19.8	27.	251.5	47.2
600.0	13900.	-6.8	-22.2	28.	247.8	46.8
550.0	16107.	-12.0	-23.5	38.	257.6	54.6
500.0	18473.	-17.7	-31.7	28.	252.3	62.6
450.0	21030.	-23.2	-24.8	87.	250.4	70.5
400.0	23620.	-30.4	-32.7	80.	250.9	80.0
350.0	26900.	-36.3	-47.3	31.	248.3	90.0
300.0	30365.	-42.2			247.4	118.3
250.0	34367.	-47.3			242.1	136.9
200.0	39158.	-50.3			9999.0XX	9999.0XX
175.0	41991.	-54.2			9999.0	9999.0XX
150.0	45224.	-56.2			9999.0	9999.0XX
125.0	48974.	-62.1			9999.0	9999.0XX
100.0	53436.	-67.6			9999.0	9999.0XX
80.0	57847.	-59.8			270.5	8.0
70.0	60570.	-61.9			250.2	32.6
60.0	63705.	-60.4			256.9	30.8
50.0	67441.	-58.7			66.2	24.9
40.0	72004.	-61.4			271.6	22.1
30.0	77875.	-58.4			9.4	16.5
25.0	81652.	-57.3			352.8	12.8
20.0	86261.	-59.1			349.4	18.8
15.0	92223.	-56.5				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 1035 HRS MST
ASCENSION NO. 2

SIGNIFICANT LEVEL DATA
0060030002
JALLEN

GEODETIC COORDINATES
33.10712 LAT DEG
106.49511 LON DEG

TABLE 11

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
873.7	12.3	2.2	50.0
868.4	13.9	2.8	47.0
850.0	11.2	1.7	52.0
788.6	5.1	.1	70.0
768.5	2.8	-.5	79.0
718.9	-1.7	-2.5	94.0
700.0	-2.5	-5.1	82.0
680.2	-3.8	-8.6	69.0
670.8	-3.5	-13.7	45.0
624.0	-7.0	-21.6	30.0
605.2	-7.4	-21.9	30.0
586.8	-8.7	-21.7	34.0
551.6	-12.7	-22.1	45.0
500.0	-17.5	-30.2	32.0
432.6	-26.3	-34.6	45.0
420.2	-27.8	-37.9	37.0
412.6	-29.1	-37.9	42.0
400.0	-30.9	-35.6	63.0
396.1	-31.7	-34.5	76.0
375.8	-34.4	-41.9	46.0
361.6	-36.4	-46.8	33.0
347.7	-36.7	-49.4	25.0
334.0	-37.2	-51.4	21.0
300.0	-42.6		
269.8	-47.3		
255.7	-44.1		
250.0	-44.5		
224.1	-48.2		
218.9	-48.1		
200.0	-51.4		
188.6	-54.0		
183.8	-51.1		
174.5	-52.2		
163.5	-55.4		
150.0	-56.3		
135.6	-61.0		
124.1	-64.1		
109.7	-65.9		
100.0	-65.7		
90.4	-67.4		

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN. 82
 ASCENSION NO. 2

SIGNIFICANT LEVEL DATA
 0060030002
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT
86.1	56625.8	-64.1	
81.3	57801.1	-58.3	
70.0	60875.1	-63.1	
67.4	61646.0	-62.0	
66.4	61953.3	-59.2	
56.7	65223.8	-58.9	
50.0	67827.6	-59.4	
34.7	75354.0	-61.2	
30.0	78362.1	-58.3	
24.5	82596.4	-56.4	
20.0	86839.2	-58.5	
13.2	95521.5	-56.9	

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 1035 HRS MST
ASCENSION NO. 2

UPPER AIR DATA
0060030002
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 12

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	*IND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	873.7	12.3	2.2	50.0	1063.0	659.2	230.0	14.0	1.000270
4500.0	859.6	12.6	2.3	49.4	1044.6	659.6	234.4	16.4	1.000266
5000.0	844.1	10.6	1.6	53.7	1033.0	657.3	237.9	19.2	1.000263
5500.0	828.6	9.1	1.3	58.1	1019.5	655.5	240.6	22.0	1.000259
6000.0	813.5	7.6	.9	62.5	1006.3	653.8	243.3	23.0	1.000256
6500.0	798.7	6.1	.5	67.0	993.2	652.0	246.5	22.5	1.000252
7000.0	784.0	4.6	-.0	72.0	980.5	650.2	250.8	22.8	1.000248
7500.0	769.5	2.9	-.4	78.5	968.2	648.2	255.3	23.4	1.000245
8000.0	755.1	1.6	-1.0	83.0	954.6	646.7	256.9	25.1	1.000241
8500.0	740.9	.3	-1.5	87.2	941.2	645.2	257.9	27.1	1.000237
9000.0	727.0	-.9	-2.2	91.5	927.9	643.6	258.8	27.1	1.000233
9500.0	713.3	-1.9	-3.3	90.5	913.9	642.4	259.4	27.7	1.000228
10000.0	699.8	-2.5	-5.2	81.9	898.8	641.6	258.0	33.9	1.000222
10500.0	686.5	-3.4	-7.5	73.2	884.8	640.5	256.5	39.7	1.000215
11000.0	673.4	-3.6	-12.0	51.8	869.1	640.1	253.7	44.3	1.000206
11500.0	660.5	-4.2	-15.3	41.8	854.8	639.2	251.7	46.1	1.000200
12000.0	647.9	-5.2	-17.3	37.8	841.5	638.0	250.1	44.1	1.000196
12500.0	635.4	-6.1	-19.5	33.8	828.3	636.9	250.2	47.0	1.000191
13000.0	623.2	-7.0	-21.6	30.0	815.3	635.8	250.1	51.5	1.000187
13500.0	611.2	-7.3	-21.8	30.0	800.3	635.4	248.7	55.4	1.000184
14000.0	599.4	-7.8	-21.8	31.3	786.4	634.8	245.5	55.1	1.000181
14500.0	587.7	-8.6	-21.7	33.8	773.5	633.8	241.8	49.7	1.000178
15000.0	576.2	-9.9	-21.7	37.2	761.9	632.3	241.5	47.3	1.000176
15500.0	565.0	-11.2	-21.8	40.7	750.7	630.8	241.7	50.0	1.000173
16000.0	553.9	-12.4	-22.1	44.3	739.6	629.3	239.5	50.5	1.000171
16500.0	542.9	-13.5	-23.4	42.9	727.9	628.0	238.9	52.2	1.000167
17000.0	532.1	-14.5	-25.0	40.2	716.1	626.8	240.6	55.9	1.000164
17500.0	521.5	-15.4	-26.6	37.6	704.6	625.6	243.1	60.7	1.000161
18000.0	511.1	-16.4	-28.3	34.9	693.3	624.3	245.4	66.0	1.000158
18500.0	500.9	-17.4	-30.0	32.2	682.1	623.1	246.4	69.6	1.000155
19000.0	490.7	-18.6	-30.6	33.7	671.4	621.6	246.8	72.3	1.000152
19500.0	480.7	-19.9	-31.2	35.5	661.0	620.1	246.9	74.8	1.000150
20000.0	470.9	-21.1	-31.8	37.4	650.7	618.5	246.7	77.2	1.000147
20500.0	461.2	-22.4	-32.5	39.2	640.6	617.0	246.5	79.6	1.000145
21000.0	451.8	-23.7	-33.1	41.1	630.7	615.4	246.1	81.1	1.000143
21500.0	442.6	-24.9	-33.8	43.0	620.9	613.9	245.7	82.5	1.000140
22000.0	433.5	-26.2	-34.6	44.8	611.3	612.3	245.5	83.5	1.000138
22500.0	424.5	-27.3	-36.7	39.8	601.3	610.9	245.3	83.9	1.000136
23000.0	415.6	-28.6	-37.9	40.0	591.9	609.3	245.3	83.4	1.000133
23500.0	406.9	-29.9	-36.7	51.5	582.6	607.7	245.7	80.8	1.000131

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN. 82 1035 HRS MST
 ASCENSION NO. 2

UPPER AIR DATA
 0060030002
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
24000.0	396.3	-31.3	68.7	573.4	606.0	246.1	1.000130
24500.0	389.8	-32.5	66.8	564.2	604.4	246.5	1.000127
25000.0	381.4	-33.6	54.5	554.7	603.0	246.8	1.000125
25500.0	373.3	-34.8	43.7	545.4	601.6	246.9	1.000122
26000.0	365.2	-35.9	36.4	536.2	600.1	246.8	1.000120
26500.0	357.3	-36.5	30.6	525.9	599.3	246.5	1.000118
27000.0	349.6	-36.7	26.1	514.9	599.1	245.8	1.000115
27500.0	342.0	-36.9	23.3	504.2	598.8	244.4	1.000113
28000.0	334.5	-37.2	21.2	493.9	598.5	243.2	1.000110
28500.0	327.2	-38.2	17.0**	485.2	597.1	242.8	1.000108
29000.0	320.0	-39.4	12.6**	476.8	595.7	242.3	1.000106
29500.0	313.0	-40.5	8.3**	468.6	594.3	241.9	1.000104
30000.0	306.1	-41.6	3.9**	460.5	592.8		1.000103
30500.0	299.3	-42.7		452.5	591.4		1.000101
31000.0	292.6	-43.7		444.3	590.1		1.000099
31500.0	286.0	-44.7		436.2	588.8		1.000097
32000.0	279.6	-45.7		428.3	587.5		1.000095
32500.0	273.3	-46.7		420.5	586.2		1.000094
33000.0	267.2	-46.7		411.1	586.2		1.000092
33500.0	261.2	-45.4		399.4	588.0		1.000089
34000.0	255.3	-44.1		388.3	589.6		1.000086
34500.0	249.6	-44.6		380.3	589.0		1.000085
35000.0	243.9	-45.3		373.0	588.0		1.000083
35500.0	238.4	-46.1		365.8	587.0		1.000081
36000.0	233.0	-46.9		358.8	586.0		1.000080
36500.0	227.8	-47.7		351.9	585.0		1.000078
37000.0	222.6	-48.2		344.7	584.3		1.000077
37500.0	217.5	-48.3		337.1	584.1		1.000075
38000.0	212.5	-49.2		330.6	583.0		1.000074
38500.0	207.7	-50.0		324.2	581.9		1.000072
39000.0	202.9	-50.9		318.0	580.8		1.000071
39500.0	198.2	-51.8		312.0	579.6		1.000069
40000.0	193.6	-52.8		306.2	578.3		1.000068
40500.0	189.1	-53.9		300.5	576.9		1.000067
41000.0	184.7	-54.7		290.6	579.8		1.000065
41500.0	180.5	-51.5		283.6	580.0		1.000063
42000.0	176.3	-52.0		277.7	579.4		1.000062
42500.0	172.2	-52.9		272.3	578.2		1.000061
43000.0	168.2	-54.0		267.4	576.7		1.000060
43500.0	164.3	-55.2		262.5	575.2		1.000058

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN. 82 1035 HRS MST
 ASCENSION NO. 2

UPPER AIR DATA
 0060030002
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
44000.0	160.4	-55.6		256.8	574.6		1.000057
44500.0	156.6	-55.8		251.1	574.3		1.000056
45000.0	152.9	-56.1		245.4	574.0		1.000055
45500.0	149.3	-56.5		240.1	573.4		1.000053
46000.0	145.8	-57.6		235.6	571.9		1.000052
46500.0	142.3	-58.8		231.2	570.4		1.000051
47000.0	138.9	-59.9		226.9	568.9		1.000051
47500.0	135.6	-61.0		222.6	567.4		1.000050
48000.0	132.3	-61.9		218.1	566.3		1.000049
48500.0	129.1	-62.7		213.7	565.1		1.000048
49000.0	125.9	-63.6		209.3	564.0		1.000047
49500.0	122.9	-64.2		204.9	563.1		1.000046
50000.0	119.8	-64.6		200.2	562.6		1.000045
50500.0	116.9	-65.0		195.6	562.1		1.000044
51000.0	114.0	-65.3		191.2	561.6		1.000043
51500.0	111.2	-65.7		186.8	561.1		1.000042
52000.0	108.5	-65.9		182.3	560.9		1.000041
52500.0	105.8	-65.8		177.8	561.0		1.000040
53000.0	103.2	-65.8		173.4	561.0		1.000039
53500.0	100.7	-65.7		169.1	561.1		1.000038
54000.0	98.2	-66.0		165.1	560.7		1.000037
54500.0	95.8	-66.4		161.4	560.1		1.000036
55000.0	93.4	-66.9		157.7	559.6		1.000035
55500.0	91.1	-67.3		154.1	559.0		1.000034
56000.0	88.8	-66.2		149.5	560.4		1.000033
56500.0	86.6	-64.5		144.7	562.7		1.000032
57000.0	84.5	-62.3		139.6	565.8		1.000031
57500.0	82.5	-59.8		134.7	569.1		1.000030
58000.0	80.5	-58.6		130.7	570.6		1.000029
58500.0	78.6	-59.4		128.1	569.6		1.000029
59000.0	76.7	-60.2		125.4	568.5		1.000028
59500.0	74.8	-61.0		122.9	567.5		1.000027
60000.0	73.0	-61.7		120.4	566.5		1.000027
60500.0	71.3	-62.5		117.9	565.4		1.000026
61000.0	69.6	-62.9		115.3	564.9		1.000026
61500.0	67.9	-62.2		112.1	565.8		1.000025
62000.0	66.3	-59.2		107.9	569.8		1.000024
62500.0	64.7	-59.1		105.3	569.9		1.000023
63000.0	63.1	-59.1		102.7	570.0		1.000023
63500.0	61.6	-59.1		100.3	570.0		1.000022

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
 6 JAN. 82 1035 HRS MST
 ASCENSION NO. 2

UPPER AIR DATA
 0060030002
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	60.2	-59.0		97.9	570.1			1.000022
64500.0	58.7	-59.0		95.5	570.1			1.000021
65000.0	57.3	-58.9		93.2	570.2			1.000021
65500.0	55.9	-59.0		91.0	570.2			1.000020
66000.0	54.6	-59.0		88.9	570.0	242.7	38.0	1.000020
66500.0	53.3	-59.1		86.8	569.9	244.9	47.1	1.000019
67000.0	52.0	-59.2		84.7	569.8	246.3	56.4	1.000019
67500.0	50.8	-59.3		82.8	569.7	247.0	56.9	1.000018
68000.0	49.6	-59.4		80.8	569.5	247.3	49.7	1.000018
68500.0	48.4	-59.6		78.9	569.4	247.7	42.6	1.000018
69000.0	47.2	-59.7		77.1	569.2	249.0	28.1	1.000017
69500.0	46.1	-59.8		75.3	569.0	254.9	10.9	1.000017
70000.0	45.0	-59.9		73.5	568.9	49.6	6.8	1.000016
70500.0	43.9	-60.0		71.8	568.7	53.9	15.2	1.000016
71000.0	42.9	-60.2		70.1	568.6	54.3	22.6	1.000016
71500.0	41.8	-60.3		68.5	568.4	54.4	29.8	1.000015
72000.0	40.8	-60.4		66.9	568.2	53.1	34.6	1.000015
72500.0	39.9	-60.5		65.3	568.1	52.1	39.3	1.000015
73000.0	38.9	-60.6		63.8	567.9	50.8	42.0	1.000014
73500.0	38.0	-60.8		62.3	567.8	48.0	38.6	1.000014
74000.0	37.1	-60.9		60.8	567.6	44.7	35.4	1.000014
74500.0	36.2	-61.0		59.4	567.4	39.8	29.8	1.000013
75000.0	35.3	-61.1		58.0	567.3	29.3	21.1	1.000013
75500.0	34.5	-61.1		56.6	567.4	6.5	14.0	1.000013
76000.0	33.6	-60.6		55.1	568.0	330.3	11.2	1.000012
76500.0	32.8	-60.1		53.7	568.6	308.5	10.7	1.000012
77000.0	32.0	-59.6		52.3	569.3	287.6	11.7	1.000012
77500.0	31.3	-59.1		50.9	569.9	272.9	13.6	1.000011
78000.0	30.5	-58.6		49.6	570.6	268.3	13.7	1.000011
78500.0	29.8	-58.2		48.3	571.1	263.8	14.0	1.000011
79000.0	29.1	-58.0		47.1	571.4	259.5	14.3	1.000010
79500.0	28.4	-57.8		46.0	571.7	262.6	13.2	1.000010
80000.0	27.7	-57.6		44.8	572.0	266.4	12.1	1.000010
80500.0	27.1	-57.3		43.7	572.3	271.0	11.1	1.000010
81000.0	26.4	-57.1		42.6	572.6	278.6	9.7	1.000009
81500.0	25.8	-56.9		41.6	572.9	289.3	8.4	1.000009
82000.0	25.2	-56.7		40.6	573.2	303.1	7.5	1.000009
82500.0	24.6	-56.4		39.6	573.5	308.5	7.4	1.000009
83000.0	24.0	-56.6		38.7	573.3	307.9	7.7	1.000009
83500.0	23.5	-56.8		37.8	573.0	307.4	7.9	1.000008

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82 1035 HRS MST
ASCENSION NO. 2

UPPER AIR DATA
0060030002
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INJEX OF REFRACTION
84000.0	22.9	-57.1			36.9	572.6	306.7	8.2	1.000008
84500.0	22.4	-57.3			36.1	572.3	305.8	8.8	1.000008
85000.0	21.8	-57.6			35.3	572.0	305.1	9.3	1.000008
85500.0	21.3	-57.8			34.5	571.7	304.4	9.9	1.000008
86000.0	20.8	-58.1			33.7	571.3	311.8	10.1	1.000008
86500.0	20.3	-58.3			33.0	571.0	319.8	10.5	1.000007
87000.0	19.8	-58.5			32.2	570.8	327.1	11.1	1.000007
87500.0	19.4	-58.4			31.4	570.9	329.7	11.4	1.000007
88000.0	18.9	-58.3			30.7	571.1	328.3	11.4	1.000007
88500.0	18.5	-58.2			29.9	571.2	326.9	11.4	1.000007
89000.0	18.0	-58.1			29.2	571.3	323.8	11.3	1.000006
89500.0	17.6	-58.0			28.5	571.4	309.8	11.5	1.000006
90000.0	17.2	-57.9			27.8	571.5	297.1	12.4	1.000006
90500.0	16.8	-57.8			27.2	571.7	286.5	13.8	1.000006
91000.0	16.4	-57.7			26.5	571.8	282.0	15.4	1.000006
91500.0	16.0	-57.6			25.9	571.9	279.5	17.0	1.000006
92000.0	15.6	-57.5			25.2	572.0	277.5	18.6	1.000006
92500.0	15.3	-57.5			24.6	572.2			1.000005
93000.0	14.9	-57.4			24.0	572.3			1.000005
93500.0	14.5	-57.3			23.5	572.4			1.000005
94000.0	14.2	-57.2			22.9	572.5			1.000005
94500.0	13.9	-57.1			22.3	572.6			1.000005
95000.0	13.5	-57.0			21.8	572.8			1.000005
95500.0	13.2	-56.9			21.3	572.9			1.000005

STATION ALTITUDE 4051.00 FEET MSL
6 JAN. 82
ASCENSION NO. 2

MANDATORY LEVELS
0060030002
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4806.	11.2	1.7	52.	236.7	18.1
800.0	6453.	6.3	.5	67.	246.2	22.6
750.0	8175.	1.2	-1.2	84.	257.3	25.8
700.0	9984.	-2.5	-5.1	82.	258.0	33.7
650.0	11906.	-5.0	-17.0	38.	250.4	44.5
600.0	13957.	-7.8	-21.9	31.	245.7	55.5
550.0	16158.	-12.8	-22.3	45.	238.8	50.7
500.0	18522.	-17.5	-30.2	32.	246.5	69.8
450.0	21079.	-23.9	-33.3	41.	246.0	81.4
400.0	23862.	-30.9	-35.6	63.	245.9	79.1
350.0	26925.	-36.6	-49.0	26.	245.9	100.3
300.0	30394.	-42.6			9999.0	9999.0XX
250.0	34390.	-44.5			9999.0	9999.0XX
200.0	39220.	-51.4			9999.0	9999.0XX
175.0	42054.	-52.1			9999.0	9999.0XX
150.0	45287.	-56.3			9999.0	9999.0XX
125.0	49016.	-63.8			9999.0	9999.0XX
100.0	53473.	-65.7			9999.0	9999.0XX
80.0	57949.	-58.8			9999.0	9999.0XX
70.0	60672.	-63.1			9999.0	9999.0XX
60.0	63828.	-59.0			9999.0	9999.0XX
50.0	67578.	-59.4			247.2	52.6
40.0	72150.	-60.5			52.3	38.4
30.0	78035.	-58.3			265.4	13.9
25.0	81814.	-56.6			307.4	7.3
20.0	86441.	-58.5			324.3	10.8
15.0	92391.	-57.4				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

